## **EAST Search History**

| Ref #      | Hits | Search Query   | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------------|------|--|---|---------------------|---------|---------------------|
| S1 .       | 10   | "4024841"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2008/02/04<br>10:32 |
| S2         | 18   | ("1904373"  <br>"1967167"  <br>"2069646"  <br>"2622569"  <br>"2808006"  <br>"3075506"  <br>"3549286"  <br>"3702602").PN. OR<br>("4024841").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2008/02/04<br>10:36 |
| S3         | 1    | ("2808006").URPN.  | USPAT   | OR                  | OFF     | 2008/02/04<br>10:37 |
| S4         | 2    | "1904373".PN.  | USPAT; USOCR  | OR                  | OFF     | 2008/02/04<br>10:37 |
| S5         | 3    | ("1904373").URPN.  | USPAT   | OR _                | OFF     | 2008/02/04<br>10:37 |
| S6         | 2    | "1967167".PN.  | USPAT; USOCR  | OR                  | OFF     | 2008/02/04<br>10:38 |
| <b>S</b> 7 | 4    | ("1967167").URPN.  | USPAT   | OR                  | OFF     | 2008/02/04<br>10:38 |
| S8         | 2    | "2622569".PN.  | USPAT; USOCR  | OR                  | OFF     | 2008/02/04<br>10:54 |
| S9         | 2    | "2808006".PN.  | USPAT; USOCR  | OR                  | OFF     | 2008/02/04<br>10:54 |
| S10        | 13   | ("3549286").URPN.  | USPAT   | OR                  | OFF     | 2008/02/04<br>10:54 |
| S11        | 1    | "6604364"  | USPAT   | OR                  | OFF     | 2008/02/04<br>10:56 |
| S12        | 4    | ("5647216"  <br>"5996345"  <br>"6205812"  <br>"6425250").PN. OR<br>("6604364").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2008/02/04<br>10:57 |

| S13 | 1     | wo-2003067033-a\$.<br>did.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/04<br>11:04 |
|-----|-------|--|---|----|-----|---------------------|
| S14 | 1     | de-2539084-a\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/04<br>11:05 |
| S15 | 1     | 1977-C3528Y.<br>NRAN.  | DERWENT   | OR | OFF | 2008/02/04<br>11:05 |
| S16 | 245   | 418/68.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/04<br>11:12 |
| S17 | 4     | ((ARNOLD) near2<br>(WAGNER)).INV.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/02/04<br>11:24 |
| S18 | 12    | ((ARNOLD) near2<br>(WAGNER)).INV.  | EPO; JPO;<br>DERWENT  | OR | OFF | 2008/02/04<br>11:24 |
| S19 | 13534 | engine\$1 and (hemisphere or hemispherical\$2 or sphere or spherical) and (oil\$3 or lubricant or lubricat \$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>09:19 |
| S20 | 2024  | engine\$1 and (hemisphere or hemispherical\$2 or sphere or spherical) and (oil\$3 or lubricant or lubricat \$3) and ((oscillat\$3 or nutat\$3 or reciprocat\$3) near5 piston\$1) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>09:21 |

| S21 | 401 | engine\$1 and (hemisphere or hemispherical\$2 or sphere or spherical) and (oil\$3 or lubricant or lubricat \$3) and ((oscillat\$3 or nutat\$3 or reciprocat\$3) near5 piston\$1) and fuel \$3 and (spark near3 plug\$1)                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2008/02/08<br>09:22 |
|-----|-----|---|---|------|-----|---------------------|
| S22 | 77  | engine\$1 and ( (hemisphere or hemispherical\$2 or sphere or spherical) with (housing or casing or case)) and (oil\$3 or lubricant or lubricat \$3) and ((oscillat\$3 or nutat\$3 or reciprocat\$3) near5 piston\$1) and fuel \$3 and (spark near3 plug\$1) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2008/02/08<br>09:23 |
| S23 | 222 | f01c003/02.ipc.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2008/02/08<br>09:36 |
| S24 | 14  | f01c003/02.ipc. and<br>(oil\$3 or lubricant<br>or lubricat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | OFF | 2008/02/08<br>09:36 |
| S25 | 1   | 2005-573112.<br>NRAN.   | DERWENT   | OR . | OFF | 2008/02/08<br>09:48 |
| S26 | 1   | 2003-627768.<br>NRAN.   | DERWENT   | OR   | OFF | 2008/02/08<br>09:48 |
| S27 | 187 | f01c003/06.ipc.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2008/02/08<br>09:54 |

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| S28 | 22  | f01c003/06.ipc. and<br>(oil\$3 or lubricant<br>or lubricat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>09:54 |
|-----|-----|---|---|----|-----|---------------------|
| S29 | 4   | f01c003/06.ipc. and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>09:57 |
| S30 | 1   | 1977-K9898Y.<br>NRAN.   | DERWENT   | OR | OFF | 2008/02/08<br>10:07 |
| S31 | 256 | 418/53.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:07 |
| S32 | 52  | 418/53.ccls. and (oil<br>\$3 or lubricant or<br>lubricat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:08 |
| S33 | 14  | 418/53.ccls. and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1))    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:09 |
| S34 | 32  | f01c009/00.ipc. and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:30 |
| S35 | 10  | f01c021/08.ipc. and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:33 |
| S36 | 10  | f01c021/10.ipc. and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:33 |

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| S37              | 9  | f01c021/12.ipc. and ((oil\$3 or lubricant or lubricat\$3) near5 (dischag\$3 or exit \$3 or outlet\$1 ot port\$1 or bore\$1))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:33 |
|------------------|----|---|---|----|-----|---------------------|
| S38              | 42 | 418/35-38.ccls.and<br>((oil\$3 or lubricant<br>or lubricat\$3) near5<br>(dischag\$3 or exit<br>\$3 or outlet\$1 ot<br>port\$1 or bore\$1))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>10:58 |
| S39              | 2  | "6579081"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>11:29 |
| S40              | 0  | f02B033/44.ipc. and ( (hemisphere or hemispherical\$2 or sphere or spherical) with (housing or casing or case)) and (oil\$3 or lubricant or lubricat \$3) and ((oscillat\$3 or nutat\$3 or reciprocat\$3) near5 piston\$1) and fuel \$3 and (spark near3 plug\$1) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:03 |
| S41              | 16 | f02B033/44.ipc. and<br>((oscillat\$3 or nutat<br>\$3 or reciprocat\$3)<br>near5 piston\$1) and<br>fuel\$3 and (spark<br>near3 plug\$1)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:04 |
| S42 <sub>.</sub> | 4  | f02B033/44.ipc. and (oil\$3 or lubricant or lubricat\$3) and ((oscillat\$3 or nutat \$3 or reciprocat\$3) near5 piston\$1) and fuel\$3 and (spark near3 plug\$1)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:04 |

| S43 | 26 | 123/200-249.ccls. and ( (hemisphere or hemispherical\$2 or sphere or spherical) with (housing or casing or case)) and (oil\$3 or lubricant or lubricat\$3) and ((oscillat\$3 or nutat \$3 or reciprocat\$3) near5 piston\$1) and fuel\$3 and (spark near3 plug\$1) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:05 |
|-----|----|--|---|----|-----|---------------------|
| S44 | 96 | 123/200-249.ccls.<br>and ( (hemisphere<br>or hemispherical\$2<br>or sphere or<br>spherical) with<br>(housing or casing<br>or case))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:07 |
| S45 | 28 | 123/200-249.ccls. and ( (hemisphere or hemispherical\$2 or sphere or spherical) with (housing or casing or case)) and (oil\$3 or lubricant or lubricat\$3) and ((oscillat\$3 or nutat \$3 or reciprocat\$3) near5 piston\$1)                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/08<br>12:09 |

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